



2008 LMOP PROJECT EXPO

LEE'S SUMMIT LANDFILL



LEE'S SUMMIT, MISSOURI

LANDFILL OVERVIEW

Open Year: 1982

Closure Year: 2014

Waste in Place: 2.7 million tons

Design Capacity: 3.8 million tons

Annual Acceptance: 93,600 tons (2006)

Landfill Area: 80 acres

Wells in Place: Yes

Flare in Place: Yes, flaring approximately 250 scfm

Methane Content of Gas: 65%

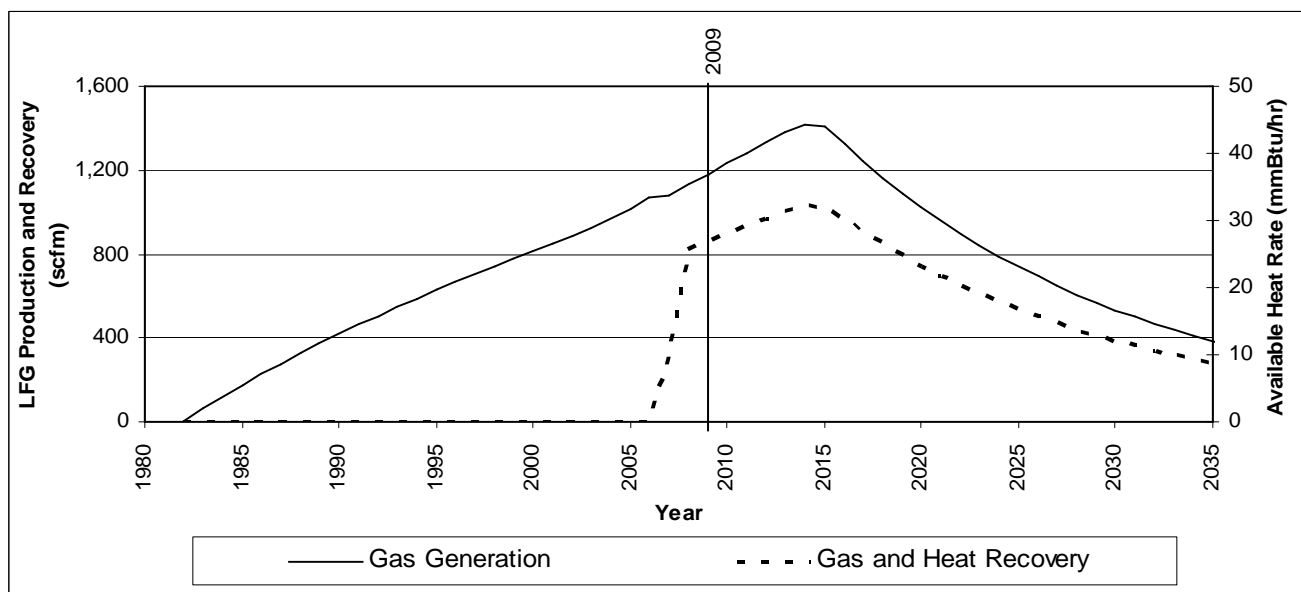
ENVIRONMENTAL BENEFITS

Lee's Summit Landfill reports that it is not currently required to collect and combust landfill gas under the Landfill NSPS/EG.

Collection and utilization of the landfill gas at an estimated extraction rate of 887 scfm in 2009 would result in direct methane and avoided emissions from conventional electricity sources, equivalent to preventing emissions of **103,500 metric tons of CO₂e per year**. These emission reductions are equivalent to any one of the following annual environmental benefits for 2009:

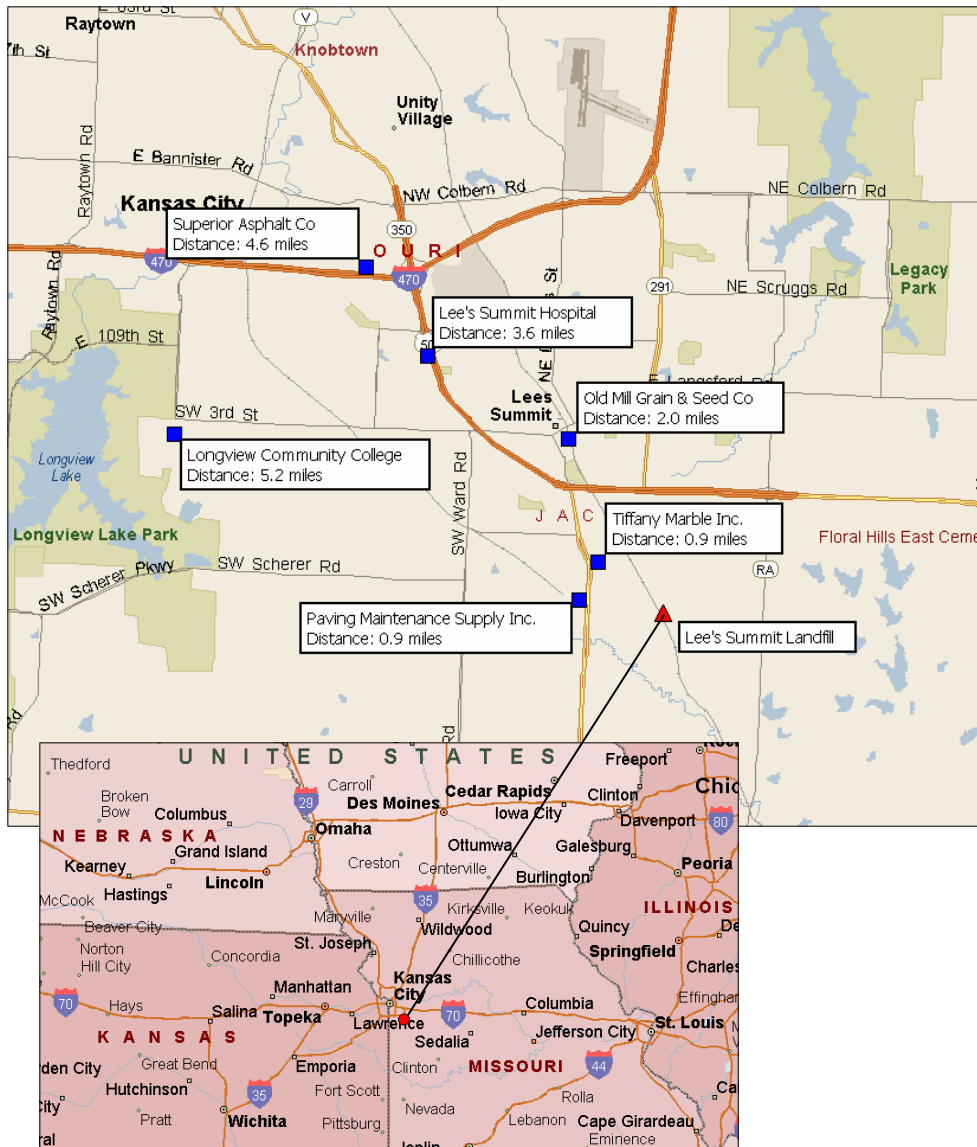
- Annual greenhouse gas emissions from 18,900 passenger vehicles
- Carbon sequestered annually by 23,500 acres of pine or fir forests
- CO₂ emissions from burning 540 railcars' worth of coal
- CO₂ emissions from 240,000 barrels of oil consumed

LANDFILL GAS AND ENERGY POTENTIAL



- LandGEM Peak Recovery Estimation: 1,065 scfm (in 2014)

LANDFILL LOCATION AND POTENTIAL END USERS



ADDITIONAL INFORMATION

In June 2007, Missouri passed Senate Bill 54, which created a renewable energy and energy efficiency goal for the state's investor-owned utilities. The legislation encourages utilities to make a good-faith effort to meet certain renewable energy targets, as follows: 4 percent of total retail electric sales generated to come from eligible renewable resources by 2012, 8 percent by 2015, and 11 percent by 2020. Eligible renewable resources under this goal include landfill gas.

For more information on project incentives see:
<http://www.epa.gov/lmop/res/guide/index.htm>

FOR MORE INFORMATION

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